

Xianlin Han

List of Publications by Year in descending order

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191
papers

21,584
citations

9234

74
h-index

10424

139
g-index

236
all docs

236
docs citations

236
times ranked

20942
citing authors

#	ARTICLE	IF	CITATIONS
1	Triglyceride accumulation protects against fatty acid-induced lipotoxicity. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3077-3082.	3.3	1,622
2	Shotgun lipidomics: Electrospray ionization mass spectrometric analysis and quantitation of cellular lipidomes directly from crude extracts of biological samples. Mass Spectrometry Reviews, 2005, 24, 367-412.	2.8	1,020
3	Global analyses of cellular lipidomes directly from crude extracts of biological samples by ESI mass spectrometry: a bridge to lipidomics. Journal of Lipid Research, 2003, 44, 1071-1079.	2.0	763
4	Substantial sulfatide deficiency and ceramide elevation in very early Alzheimer's disease: potential role in disease pathogenesis. Journal of Neurochemistry, 2002, 82, 809-818.	2.1	520
5	Plasmalogen deficiency in early Alzheimer's disease subjects and in animal models: molecular characterization using electrospray ionization mass spectrometry. Journal of Neurochemistry, 2001, 77, 1168-1180.	2.1	505
6	Lipidomics for studying metabolism. Nature Reviews Endocrinology, 2016, 12, 668-679.	4.3	492
7	Lipid Rafts Are Enriched in Arachidonic Acid and Plasmenylethanolamine and Their Composition Is Independent of Caveolin-1 Expression: A Quantitative Electrospray Ionization/Mass Spectrometric Analysis. Biochemistry, 2002, 41, 2075-2088.	1.2	475
8	Cellular mechanism of insulin resistance in nonalcoholic fatty liver disease. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16381-16385.	3.3	475
9	Multi-dimensional mass spectrometry-based shotgun lipidomics and novel strategies for lipidomic analyses. Mass Spectrometry Reviews, 2012, 31, 134-178.	2.8	470
10	Lipidomics: Techniques, Applications, and Outcomes Related to Biomedical Sciences. Trends in Biochemical Sciences, 2016, 41, 954-969.	3.7	417
11	Altered bile acid profile associates with cognitive impairment in Alzheimer's disease—An emerging role for gut microbiome. Alzheimer's and Dementia, 2019, 15, 76-92.	0.4	396
12	ABCA1 Is Required for Normal Central Nervous System ApoE Levels and for Lipidation of Astrocyte-secreted apoE. Journal of Biological Chemistry, 2004, 279, 40987-40993.	1.6	376
13	Metabolomics in Early Alzheimer's Disease: Identification of Altered Plasma Sphingolipidome Using Shotgun Lipidomics. PLoS ONE, 2011, 6, e21643.	1.1	367
14	Metabolic network failures in Alzheimer's disease: A biochemical roadmap. Alzheimer's and Dementia, 2017, 13, 965-984.	0.4	362
15	Automated Lipid Identification and Quantification by Multidimensional Mass Spectrometry-Based Shotgun Lipidomics. Analytical Chemistry, 2009, 81, 4356-4368.	3.2	354
16	Quantitative Analysis and Molecular Species Fingerprinting of Triacylglyceride Molecular Species Directly from Lipid Extracts of Biological Samples by Electrospray Ionization Tandem Mass Spectrometry. Analytical Biochemistry, 2001, 295, 88-100.	1.1	343
17	Circadian Clocks and Feeding Time Regulate the Oscillations and Levels of Hepatic Triglycerides. Cell Metabolism, 2014, 19, 319-330.	7.2	326
18	Structural determination of picomole amounts of phospholipids via electrospray ionization tandem mass spectrometry. Journal of the American Society for Mass Spectrometry, 1995, 6, 1202-1210.	1.2	293

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19	Shotgun lipidomics: multidimensional MS analysis of cellular lipidomes. <i>Expert Review of Proteomics</i> , 2005, 2, 253-264.	1.3	249
20	Alterations in Myocardial Cardiolipin Content and Composition Occur at the Very Earliest Stages of Diabetes: A Shotgun Lipidomics Study. <i>Biochemistry</i> , 2007, 46, 6417-6428.	1.2	249
21	Cardiolipin and electron transport chain abnormalities in mouse brain tumor mitochondria: lipidomic evidence supporting the Warburg theory of cancer. <i>Journal of Lipid Research</i> , 2008, 49, 2545-2556.	2.0	239
22	Cardiolipin Remodeling by ALCAT1 Links Oxidative Stress and Mitochondrial Dysfunction to Obesity. <i>Cell Metabolism</i> , 2010, 12, 154-165.	7.2	233
23	MS-based lipidomics of human blood plasma: a community-initiated position paper to develop accepted guidelines. <i>Journal of Lipid Research</i> , 2018, 59, 2001-2017.	2.0	231
24	Selection of internal standards for accurate quantification of complex lipid species in biological extracts by electrospray ionization mass spectrometry—What, how and why?. <i>Mass Spectrometry Reviews</i> , 2017, 36, 693-714.	2.8	220
25	Toward fingerprinting cellular lipidomes directly from biological samples by two-dimensional electrospray ionization mass spectrometry. <i>Analytical Biochemistry</i> , 2004, 330, 317-331.	1.1	219
26	Novel advances in shotgun lipidomics for biology and medicine. <i>Progress in Lipid Research</i> , 2016, 61, 83-108.	5.3	211
27	Altered bile acid profile in mild cognitive impairment and Alzheimer's disease: Relationship to neuroimaging and CSF biomarkers. <i>Alzheimer's and Dementia</i> , 2019, 15, 232-244.	0.4	198
28	Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometric Analysis of Cellular Glycerophospholipids Enabled by Multiplexed Solvent Dependent Analyte-Matrix Interactions. <i>Analytical Chemistry</i> , 2008, 80, 7576-7585.	3.2	197
29	Epidermal Growth Factor Receptors Are Localized to Lipid Rafts That Contain a Balance of Inner and Outer Leaflet Lipids. <i>Journal of Biological Chemistry</i> , 2005, 280, 26796-26804.	1.6	194
30	Characterization and Direct Quantitation of Ceramide Molecular Species from Lipid Extracts of Biological Samples by Electrospray Ionization Tandem Mass Spectrometry. <i>Analytical Biochemistry</i> , 2002, 302, 199-212.	1.1	177
31	Shotgun lipidomics of cardiolipin molecular species in lipid extracts of biological samples. <i>Journal of Lipid Research</i> , 2006, 47, 864-879.	2.0	177
32	Lipidomics at the Interface of Structure and Function in Systems Biology. <i>Chemistry and Biology</i> , 2011, 18, 284-291.	6.2	163
33	Lipid Alterations in the Earliest Clinically Recognizable Stage of Alzheimers Disease: Implication of the Role of Lipids in the Pathogenesis of Alzheimers Disease. <i>Current Alzheimer Research</i> , 2005, 2, 65-77.	0.7	161
34	Shotgun Lipidomics Identifies Cardiolipin Depletion in Diabetic Myocardium Linking Altered Substrate Utilization with Mitochondrial Dysfunction. <i>Biochemistry</i> , 2005, 44, 16684-16694.	1.2	161
35	Targeting DGAT1 Ameliorates Glioblastoma by Increasing Fat Catabolism and Oxidative Stress. <i>Cell Metabolism</i> , 2020, 32, 229-242.e8.	7.2	160
36	Microfluidics-based electrospray ionization enhances the intrasource separation of lipid classes and extends identification of individual molecular species through multi-dimensional mass spectrometry: development of an automated high-throughput platform for shotgun lipidomics. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 2115-2124.	0.7	156

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37	Lipid analysis. , 2010, , .		156
38	Purification and characterization of astrocyte-secreted apolipoprotein E and J-containing lipoproteins from wild-type and human apoE transgenic mice. <i>Neurochemistry International</i> , 2001, 39, 415-425.	1.9	153
39	Fatty Acidomics: Global Analysis of Lipid Species Containing a Carboxyl Group with a Charge-Remote Fragmentation-Assisted Approach. <i>Analytical Chemistry</i> , 2013, 85, 9312-9320.	3.2	148
40	Alterations in Individual Molecular Species of Human Platelet Phospholipids during Thrombin Stimulation: An Electro spray Ionization Mass Spectrometry-Facilitated Identification of the Boundary Conditions for the Magnitude and Selectivity of Thrombin-Induced Platelet Phospholipid Hydrolysis. <i>Biochemistry</i> , 1996, 35, 5822-5832.	1.2	146
41	Shotgun lipidomics of phosphoethanolamine-containing lipids in biological samples after one-step in situ derivatization. <i>Journal of Lipid Research</i> , 2005, 46, 1548-1560.	2.0	142
42	The Functional Characterization of Long Noncoding RNA <i>SPRY4-IT1</i> in Human Melanoma Cells. <i>Oncotarget</i> , 2014, 5, 8959-8969.	0.8	142
43	Accurate Quantification of Lipid Species by Electro spray Ionization Mass Spectrometry Meets a Key Challenge in Lipidomics. <i>Metabolites</i> , 2011, 1, 21-40.	1.3	139
44	Plasmenylcholine and phosphatidylcholine membrane bilayers possess distinct conformational motifs. <i>Biochemistry</i> , 1990, 29, 4992-4996.	1.2	138
45	Structural Determination of Lysophospholipid Regioisomers by Electro spray Ionization Tandem Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 1996, 118, 451-457.	6.6	131
46	Lipidomic analysis and electron transport chain activities in C57BL/6J mouse brain mitochondria. <i>Journal of Neurochemistry</i> , 2008, 106, 299-312.	2.1	128
47	Multi-dimensional mass spectrometry-based shotgun lipidomics and the altered lipids at the mild cognitive impairment stage of Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 774-783.	1.2	126
48	Characterization and direct quantitation of cerebroside molecular species from lipid extracts by shotgun lipidomics. <i>Journal of Lipid Research</i> , 2005, 46, 163-175.	2.0	122
49	Factors influencing the electro spray intrasource separation and selective ionization of glycerophospholipids. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 264-274.	1.2	120
50	Lipidomics Analyses Reveal Temporal and Spatial Lipid Organization and Uncover Daily Oscillations in Intracellular Organelles. <i>Molecular Cell</i> , 2016, 62, 636-648.	4.5	120
51	Sex and APOE $\epsilon 4$ genotype modify the Alzheimer's disease serum metabolome. <i>Nature Communications</i> , 2020, 11, 1148.	5.8	115
52	Cardiolipin Synthesis in Brown and Beige Fat Mitochondria Is Essential for Systemic Energy Homeostasis. <i>Cell Metabolism</i> , 2018, 28, 159-174.e11.	7.2	114
53	Cerebrospinal fluid sulfatide is decreased in subjects with incipient dementia. <i>Annals of Neurology</i> , 2003, 54, 115-119.	2.8	113
54	Novel Role for Apolipoprotein E in the Central Nervous System. <i>Journal of Biological Chemistry</i> , 2003, 278, 8043-8051.	1.6	112

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55	High-fat diet-induced upregulation of exosomal phosphatidylcholine contributes to insulin resistance. <i>Nature Communications</i> , 2021, 12, 213.	5.8	112
56	ABCA7 Deficiency Accelerates Amyloid- β Generation and Alzheimer's Neuronal Pathology. <i>Journal of Neuroscience</i> , 2016, 36, 3848-3859.	1.7	109
57	Alterations in lipid homeostasis of mouse dorsal root ganglia induced by apolipoprotein E deficiency: a shotgun lipidomics study. <i>Journal of Neurochemistry</i> , 2006, 101, 57-76.	2.1	103
58	Alkaline methanolysis of lipid extracts extends shotgun lipidomics analyses to the low-abundance regime of cellular sphingolipids. <i>Analytical Biochemistry</i> , 2007, 371, 135-145.	1.1	102
59	Unremodeled and Remodeled Cardiolipin Are Functionally Indistinguishable in Yeast. <i>Journal of Biological Chemistry</i> , 2014, 289, 1768-1778.	1.6	100
60	Dysfunctional cardiac mitochondrial bioenergetic, lipidomic, and signaling in a murine model of Barth syndrome. <i>Journal of Lipid Research</i> , 2013, 54, 1312-1325.	2.0	98
61	Tutorial on lipidomics. <i>Analytica Chimica Acta</i> , 2019, 1061, 28-41.	2.6	97
62	Diabetes-induced changes in specific lipid molecular species in rat myocardium. <i>Biochemical Journal</i> , 2000, 352, 79-89.	1.7	96
63	Potential mechanisms contributing to sulfatide depletion at the earliest clinically recognizable stage of Alzheimer's disease: a tale of shotgun lipidomics. <i>Journal of Neurochemistry</i> , 2007, 103, 171-179.	2.1	96
64	Impaired mitochondrial fat oxidation induces adaptive remodeling of muscle metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3300-9.	3.3	96
65	Neurolipidomics: challenges and developments. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 2601.	3.0	95
66	Systematic analysis of choline-containing phospholipids using multi-dimensional mass spectrometry-based shotgun lipidomics. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 2924-2936.	1.2	86
67	Recommendations for good practice in MS-based lipidomics. <i>Journal of Lipid Research</i> , 2021, 62, 100138.	2.0	85
68	Caloric Restriction Results in Phospholipid Depletion, Membrane Remodeling, and Triacylglycerol Accumulation in Murine Myocardium. <i>Biochemistry</i> , 2004, 43, 15584-15594.	1.2	84
69	Shotgun Metabolomics Approach for the Analysis of Negatively Charged Water-Soluble Cellular Metabolites from Mouse Heart Tissue. <i>Analytical Chemistry</i> , 2007, 79, 6629-6640.	3.2	84
70	Specific changes of sulfatide levels in individuals with pre-clinical Alzheimer's disease: an early event in disease pathogenesis. <i>Journal of Neurochemistry</i> , 2013, 127, 733-738.	2.1	84
71	A role for long-chain acyl-CoA synthetase-4 (ACSL4) in diet-induced phospholipid remodeling and obesity-associated adipocyte dysfunction. <i>Molecular Metabolism</i> , 2018, 9, 43-56.	3.0	84
72	Identification and Quantitation of Unsaturated Fatty Acid Isomers by Electrospray Ionization Tandem Mass Spectrometry: A Shotgun Lipidomics Approach. <i>Analytical Chemistry</i> , 2011, 83, 4243-4250.	3.2	83

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73	Characterization of oxysterols by electrospray ionization tandem mass spectrometry after one-step derivatization with dimethylglycine. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 141-152.	0.7	82
74	A Role for Peroxisome Proliferator-activated Receptor β Coactivator 1 (PGC-1) in the Regulation of Cardiac Mitochondrial Phospholipid Biosynthesis. <i>Journal of Biological Chemistry</i> , 2014, 289, 2250-2259.	1.6	80
75	Macrophage CGI-58 Deficiency Activates ROS-Inflammasome Pathway to Promote Insulin Resistance in Mice. <i>Cell Reports</i> , 2014, 7, 223-235.	2.9	80
76	Concordant peripheral lipidome signatures in two large clinical studies of Alzheimer's disease. <i>Nature Communications</i> , 2020, 11, 5698.	5.8	76
77	Potential Adverse Effects of Prolonged Sevoflurane Exposure on Developing Monkey Brain: From Abnormal Lipid Metabolism to Neuronal Damage. <i>Toxicological Sciences</i> , 2015, 147, 562-572.	1.4	74
78	Shotgun lipidomics in substantiating lipid peroxidation in redox biology: Methods and applications. <i>Redox Biology</i> , 2017, 12, 946-955.	3.9	73
79	Selective desorption/ionization of sulfatides by MALDI-MS facilitated using 9-aminoacridine as matrix. <i>Journal of Lipid Research</i> , 2010, 51, 1599-1609.	2.0	72
80	Phosphatidylethanolamine made in the inner mitochondrial membrane is essential for yeast cytochrome bc1 complex function. <i>Nature Communications</i> , 2019, 10, 1432.	5.8	72
81	Apolipoprotein E mediates sulfatide depletion in animal models of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2010, 31, 1188-1196.	1.5	70
82	A review of lipidomic technologies applicable to sphingolipidomics and their relevant applications. <i>European Journal of Lipid Science and Technology</i> , 2009, 111, 39-52.	1.0	69
83	Effect of high fat diet on phenotype, brain transcriptome and lipidome in Alzheimer's model mice. <i>Scientific Reports</i> , 2017, 7, 4307.	1.6	69
84	Abundance of triacylglycerols in ganglia and their depletion in diabetic mice: implications for the role of altered triacylglycerols in diabetic neuropathy. <i>Journal of Neurochemistry</i> , 2006, 97, 1288-1300.	2.1	68
85	Cardiolipin remodeling in diabetic heart. <i>Chemistry and Physics of Lipids</i> , 2014, 179, 75-81.	1.5	68
86	Applications of mass spectrometry for cellular lipid analysis. <i>Molecular BioSystems</i> , 2015, 11, 698-713.	2.9	65
87	The mitochondria-targeted peptide SS-31 binds lipid bilayers and modulates surface electrostatics as a key component of its mechanism of action. <i>Journal of Biological Chemistry</i> , 2020, 295, 7452-7469.	1.6	65
88	Multidimensional Mass Spectrometry-Based Shotgun Lipidomics. <i>Methods in Molecular Biology</i> , 2014, 1198, 203-220.	0.4	65
89	Shotgun Lipidomics Identifies a Paired Rule for the Presence of Isomeric Ether Phospholipid Molecular Species. <i>PLoS ONE</i> , 2007, 2, e1368.	1.1	64
90	Acyl-CoA thioesterase-2 facilitates mitochondrial fatty acid oxidation in the liver. <i>Journal of Lipid Research</i> , 2014, 55, 2458-2470.	2.0	64

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91	Furan fatty acids – Beneficial or harmful to health?. <i>Progress in Lipid Research</i> , 2017, 68, 119-137.	5.3	63
92	Dynamic simulation of cardiolipin remodeling: greasing the wheels for an interpretative approach to lipidomics. <i>Journal of Lipid Research</i> , 2010, 51, 2153-2170.	2.0	62
93	A Soluble Fluorescent Binding Assay Reveals PIP2 Antagonism of TREK-1 Channels. <i>Cell Reports</i> , 2017, 20, 1287-1294.	2.9	62
94	Functional lipidomics: the roles of specialized lipids and lipid–protein interactions in modulating neuronal function. <i>Prostaglandins and Other Lipid Mediators</i> , 2005, 77, 52-64.	1.0	61
95	The foundations and development of lipidomics. <i>Journal of Lipid Research</i> , 2022, 63, 100164.	2.0	61
96	Characterization and Quantification of Diacylglycerol Species in Biological Extracts after One-Step Derivatization: A Shotgun Lipidomics Approach. <i>Analytical Chemistry</i> , 2014, 86, 2146-2155.	3.2	60
97	Quantitative profiling and pattern analysis of triacylglycerol species in Arabidopsis seeds by electrospray ionization mass spectrometry. <i>Plant Journal</i> , 2014, 77, 160-172.	2.8	59
98	Identification of Naturally Occurring Fatty Acids of the Myelin Sheath That Resolve Neuroinflammation. <i>Science Translational Medicine</i> , 2012, 4, 137ra73.	5.8	58
99	Cytochrome b5 reductase and the control of lipid metabolism and healthspan. <i>Npj Aging and Mechanisms of Disease</i> , 2016, 2, 16006.	4.5	57
100	Phospholipids of APOE lipoproteins activate microglia in an isoform-specific manner in preclinical models of Alzheimer’s disease. <i>Nature Communications</i> , 2021, 12, 3416.	5.8	57
101	Integrative metabolomics–genomics approach reveals key metabolic pathways and regulators of Alzheimer’s disease. <i>Alzheimer’s and Dementia</i> , 2022, 18, 1260-1278.	0.4	57
102	MicroRNA-211 Regulates Oxidative Phosphorylation and Energy Metabolism in Human Vitiligo. <i>Journal of Investigative Dermatology</i> , 2017, 137, 1965-1974.	0.3	55
103	Bis(monoacylglycero)phosphate: a secondary storage lipid in the gangliosidoses. <i>Journal of Lipid Research</i> , 2015, 56, 1005-1006.	2.0	54
104	Quality control requirements for the correct annotation of lipidomics data. <i>Nature Communications</i> , 2021, 12, 4771.	5.8	54
105	Dramatic Accumulation of Triglycerides and Precipitation of Cardiac Hemodynamic Dysfunction during Brief Caloric Restriction in Transgenic Myocardium Expressing Human Calcium-independent Phospholipase A2 ³ . <i>Journal of Biological Chemistry</i> , 2007, 282, 9216-9227.	1.6	53
106	Shotgun Lipidomics Analysis of 4-Hydroxyalkenal Species Directly from Lipid Extracts after One-Step in Situ Derivatization. <i>Analytical Chemistry</i> , 2012, 84, 4580-4586.	3.2	53
107	Adult-onset CNS myelin sulfatide deficiency is sufficient to cause Alzheimer’s disease-like neuroinflammation and cognitive impairment. <i>Molecular Neurodegeneration</i> , 2021, 16, 64.	4.4	52
108	MondoA coordinately regulates skeletal myocyte lipid homeostasis and insulin signaling. <i>Journal of Clinical Investigation</i> , 2016, 126, 3567-3579.	3.9	52

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109	Hepatic ketogenic insufficiency reprograms hepatic glycogen metabolism and the lipidome. <i>JCI Insight</i> , 2018, 3, .	2.3	51
110	Accumulation of Unsaturated Acylcarnitine Molecular Species During Acute Myocardial Ischemia:â€% Metabolic Compartmentalization of Products of Fatty Acyl Chain Elongation in the Acylcarnitine Pool. <i>Biochemistry</i> , 1996, 35, 7903-7909.	1.2	50
111	Sequential Ordered Fatty Acid $\hat{\pm}$ Oxidation and \hat{p} 9 Desaturation Are Major Determinants of Lipid Storage and Utilization in Differentiating Adipocytes. <i>Biochemistry</i> , 2004, 43, 5033-5044.	1.2	50
112	Bendavia restores mitochondrial energy metabolism gene expression and suppresses cardiac fibrosis in the border zone of the infarcted heart. <i>Life Sciences</i> , 2015, 141, 170-178.	2.0	50
113	Oxidative stress leads to reduction of plasmalogen serving as a novel biomarker for systemic lupus erythematosus. <i>Free Radical Biology and Medicine</i> , 2016, 101, 475-481.	1.3	50
114	Semisynthesis and purification of homogeneous plasmenylcholine molecular species. <i>Analytical Biochemistry</i> , 1992, 200, 119-124.	1.1	49
115	Targeted metabolomics and medication classification data from participants in the ADNI1 cohort. <i>Scientific Data</i> , 2017, 4, 170140.	2.4	49
116	MiR-124 acts as a tumor suppressor by inhibiting the expression of sphingosine kinase 1 and its downstream signaling in head and neck squamous cell carcinoma. <i>Oncotarget</i> , 2017, 8, 25005-25020.	0.8	47
117	Strategies to Improve/Eliminate the Limitations in Shotgun Lipidomics. <i>Proteomics</i> , 2020, 20, e1900070.	1.3	47
118	Novel molecular insights into the critical role of sulfatide in myelin maintenance/function. <i>Journal of Neurochemistry</i> , 2016, 139, 40-54.	2.1	46
119	The Pathogenic Implication of Abnormal Interaction Between Apolipoprotein E Isoforms, Amyloid-beta Peptides, and Sulfatides in Alzheimerâ€™s Disease. <i>Molecular Neurobiology</i> , 2010, 41, 97-106.	1.9	45
120	Mitochondria-Targeted Antioxidant Prevents Cardiac Dysfunction Induced by Tafazzin Gene Knockdown in Cardiac Myocytes. <i>Oxidative Medicine and Cellular Longevity</i> , 2014, 2014, 1-12.	1.9	45
121	Comprehensive and Quantitative Analysis of Lysophospholipid Molecular Species Present in Obese Mouse Liver by Shotgun Lipidomics. <i>Analytical Chemistry</i> , 2015, 87, 4879-4887.	3.2	44
122	The cardiolipin-binding peptide elamipretide mitigates fragmentation of cristae networks following cardiac ischemia reperfusion in rats. <i>Communications Biology</i> , 2020, 3, 389.	2.0	43
123	APOE2 orchestrated differences in transcriptomic and lipidomic profiles of postmortem AD brain. <i>Alzheimer's Research and Therapy</i> , 2019, 11, 113.	3.0	42
124	Enhanced coverage of lipid analysis and imaging by matrix-assisted laser desorption/ionization mass spectrometry via a strategy with an optimized mixture of matrices. <i>Analytica Chimica Acta</i> , 2018, 1000, 155-162.	2.6	39
125	Simulation of triacylglycerol ion profiles: bioinformatics for interpretation of triacylglycerol biosynthesis. <i>Journal of Lipid Research</i> , 2013, 54, 1023-1032.	2.0	38
126	Oligomeric amyloid-beta induces MAPK-mediated activation of brain cytosolic and calcium-independent phospholipase A2 in a spatial-specific manner. <i>Acta Neuropathologica Communications</i> , 2017, 5, 56.	2.4	38

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127	Impaired Mitochondrial Energetics Characterize Poor Early Recovery of Muscle Mass Following Hind Limb Unloading in Old Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 1313-1322.	1.7	37
128	Endosomes and lysosomes play distinct roles in sulfatide-induced neuroblastoma apoptosis: potential mechanisms contributing to abnormal sulfatide metabolism in related neuronal diseases. <i>Biochemical Journal</i> , 2008, 410, 81-92.	1.7	36
129	Lipidomics Revealed Idiopathic Pulmonary Fibrosis-Induced Hepatic Lipid Disorders Corrected with Treatment of Baicalin in a Murine Model. <i>AAPS Journal</i> , 2015, 17, 711-722.	2.2	36
130	Improved Butanol-Methanol (BUME) Method by Replacing Acetic Acid for Lipid Extraction of Biological Samples. <i>Lipids</i> , 2016, 51, 887-896.	0.7	36
131	Accurate mass searching of individual lipid species candidates from high-resolution mass spectra for shotgun lipidomics. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2201-2210.	0.7	33
132	Comprehensive and Quantitative Analysis of Polyphosphoinositide Species by Shotgun Lipidomics Revealed Their Alterations in db/db Mouse Brain. <i>Analytical Chemistry</i> , 2016, 88, 12137-12144.	3.2	33
133	Strategy for Quantitative Analysis of Isomeric Bis(monoacylglycero)phosphate and Phosphatidylglycerol Species by Shotgun Lipidomics after One-Step Methylation. <i>Analytical Chemistry</i> , 2017, 89, 8490-8495.	3.2	33
134	Shotgun Lipidomics Revealed Altered Profiles of Serum Lipids in Systemic Lupus Erythematosus Closely Associated with Disease Activity. <i>Biomolecules</i> , 2018, 8, 105.	1.8	33
135	Novel strategies for enhancing shotgun lipidomics for comprehensive analysis of cellular lipidomes. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115330.	5.8	33
136	Insulin resistance is mechanistically linked to hepatic mitochondrial remodeling in non-alcoholic fatty liver disease. <i>Molecular Metabolism</i> , 2021, 45, 101154.	3.0	33
137	High-Throughput Lipidomic and Transcriptomic Analysis To Compare SP2/O, CHO, and HEK-293 Mammalian Cell Lines. <i>Analytical Chemistry</i> , 2017, 89, 1477-1485.	3.2	31
138	Is the clinical lipidomics a potential goldmine?. <i>Cell Biology and Toxicology</i> , 2018, 34, 421-423.	2.4	31
139	RECOGNITION AND AVOIDANCE OF ION SOURCE-GENERATED ARTIFACTS IN LIPIDOMICS ANALYSIS. <i>Mass Spectrometry Reviews</i> , 2022, 41, 15-31.	2.8	30
140	Sensitive analysis of fatty acid esters of hydroxy fatty acids in biological lipid extracts by shotgun lipidomics after one-step derivatization. <i>Analytica Chimica Acta</i> , 2020, 1105, 105-111.	2.6	30
141	Comprehensive genetic analysis of the human lipidome identifies loci associated with lipid homeostasis with links to coronary artery disease. <i>Nature Communications</i> , 2022, 13, .	5.8	30
142	Analytical challenges of shotgun lipidomics at different resolution of measurements. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 121, 115697.	5.8	27
143	Restoring mitochondrial superoxide levels with elamipretide (MTP-131) protects db/db mice against progression of diabetic kidney disease. <i>Journal of Biological Chemistry</i> , 2020, 295, 7249-7260.	1.6	27
144	Early disruption of nerve mitochondrial and myelin lipid homeostasis in obesity-induced diabetes. <i>JCI Insight</i> , 2020, 5, .	2.3	27

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145	Lipid profile of platelets and platelet-derived microparticles in ovarian cancer. <i>BBA Clinical</i> , 2016, 6, 76-81.	4.1	26
146	Discovering a critical transition state from nonalcoholic hepatosteatosis to nonalcoholic steatohepatitis by lipidomics and dynamical network biomarkers. <i>Journal of Molecular Cell Biology</i> , 2016, 8, 195-206.	1.5	26
147	Enhanced defense against ferroptosis ameliorates cognitive impairment and reduces neurodegeneration in 5xFAD mice. <i>Free Radical Biology and Medicine</i> , 2022, 180, 1-12.	1.3	26
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